

- B1
- (c) a signaling device enclosed by the case;
  - (d) a means to replace the main battery;
  - (e) a circuit board enclosed by the case having attached on the circuit board, a wireless data modem, a GPS receiver having a means to acquire updates to a GPS almanac, a matched filtering GPS receiver, an RF front end connected to the GPS receiver and matched filtering GPS receiver and a field programmable gate array[.]; and
  - (f) the body-worn tracking device in contact with a central station computer containing an algorithm for comparing a current location of the body-worn tracking device to a schedule of rules and location restraints to determine if a static violation has occurred.

11 12. (Twice Amended) A system for determining the spacial coordinates of an offender comprising attaching a tamper resistant body-worn tracking device to a limb of the offender, and sending signals directly from the body-worn tracking device to remote associated notification devices, the body-worn tracking device providing a sealed case containing:

- B2
- (a) a main battery;
  - (b) a signaling device;
  - (c) a circuit board having attached to the board
    - (1) a wireless data modem,
    - (2) a GPS receiver having a means to acquire updates to a GPS almanac,
    - (3) a matched filtering GPS receiver with an RF front end connected to the GPS receiver and matched filtering GPS receiver, and

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27